NOVAPPLE Newsletter

VOLUME VI - NUMBER 10 | NORTHERN VIRGINIA APPLE USERS GROUP | DECEMBER 1986

Disk Library Review

NEWTON'S APPLE

by Alan Florkowski

The newest additions to the NOVAPPLE Disk Library are contributed by the DuPont Company, television sponsors of the educational program Newton's Apple. The two disks are the first of the series' namesake to be distributed free to user's groups.

Disk #1 contains a series of questions relating to your choice of either Mirrors or Inertia. My optics major in college gave me experience in the workings of mirrors well beyond the knowledge (or desires) of the average person, so naturally I was left wanting more detail and was disappointed when the questions ran out. However, my seven year old son, Brian, got right into the spirit of calculating the number of reflections one sees in a pair of obliquely facing mirrors.

The sequence dealing with Inertia caught me with less information right at the tips of my fingers, and ultimately prompted me to take out one of my old physics texts. Watching Inertia on public television at a later date sort of enhanced the enjoyment of this portion of the disk.

Disk #2 contains probability and Newton's Knowledge Quiz. The questions on probability are basic in describing the luck of the draw. This is an academic revelation I suggest to all on the night prior to your visit to the casino. It also was vividly illustrated on the television program at a later date.

I won't say a word about Newton's Knowledge Quiz, for no one would ever approve of knowing the contents of a quiz prior to its implementation. One tip I will give to NOVAPPLE members is to TRY IT!

My initial criticism of both disks was that they did not answer enough questions since I ended up asking more questions than they did. Then the lightning bolt struck and I realized my foolishness. The whole concept of Newton's Apple is to get people to ask questions!! So support your local disk library, set the family in front of the Apple, and write down your excess questions. If you can't find the answer, send them to Newton's Apple!

Limited Offer!

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All orders must be postmarked no later than April 30, 1987.

** THE //GS DEMO & MEETING! **

The Wednesday meeting at our new location at The Fairlington Community Center was a good success! The high light of the meeting was a demonstration of the new Apple //gs computer by Alyce Neukirk of Clinton Computer, Alexandria.

A large number of members were present as demos of three software packages were presented. Using a pair of Boise speakers, Alyce presented the new "Apple" sound and graphics of the //GS. The new computer performed without problems, sharp and clear graphics along with Hi-RES pictures were shown from a "Painting" package of software. The sound from the speakers was clear and "even tone" as voice and music was played from the //GS.

Scott Travis, who works with Family Computers in Springfield, aided in answering questions from the members present.

Alyce Neukirk is a Marketing Representative for Clinton Computers and NovApple thanks her for her time for the demonstration.

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⊗ DENOTES NEW ITEM

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- HI RES COMPOSITE $119.00
- COMPOSITE COLOR $139.00
- RGB COLOR $299.00

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- 1200 EXT. PLUS PHONE $169.00
- US ROBOTICS 1200 EXT. $219.00
- PROMETHEUS 1200A INT. $269.00
- US ROBOTICS 2400 ..... $369.00 *

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- MULTIPLE-SLOT CHASSIS $149.00
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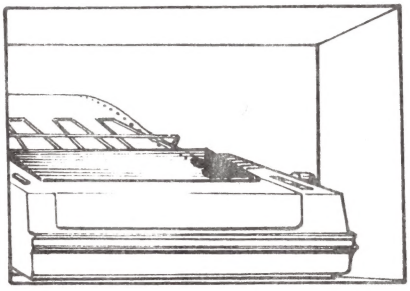
- 9-16 GAME I/O ADAPTER $9.00
- MULTI-RAM CX, 256K $239.00
- MULTI-RAM CX, 512K $269.00



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HOTLINE

THE NOVAPPLE HOTLINE IS A LIST OF VOLUNTEERS WHO HAVE AGREED TO ANSWER YOUR QUESTIONS BY PHONE. DO NOT CALL AFTER 10PM, PLEASE. PASS UPDATES TO ERNIE PHILIPP IN WRITING OR CALL (H) 379-7198. hotline 11/86

SUBJECT	LAST NAME, FIRST	PHONE
1ST CLASS MAIL	THORNBURG, JIM	750-1367
APPLE PIE WP	LAUFER, GABOR	765-4539
APPLESOFT	ANTON, BILL	385-1225
	LAUFER, GABOR	765-4539
	PANKIN, MARK	524-0937
	PHILIPP, ERNIE	379-7198
APPLEWORKS	KRIEGER,BILL	821-1496
	CONCAUGH ,INA	256-3062
	EISEN,CARL	354-4837
	CHEW, RICH	573-0947
	THORNBURG, JIM	750-1367
APPLEWRITER II	ANTON, BILL	385-1225
	HARVEY, DAVE	578-4621
ASCII EXPRESS	HARVEY, DAVE	578-4621
ASSEMBLY LANGUAGE	KRIEGER, BILL	821-1496
	PHILLIP, ERNIE	379-7198
COMMUNICATIONS,Modems	HARVEY, DAVE	578-4621
	TRAVIS, SCOTT	455-9361
CP/M	PHILIPP, ERNIE	379-7198
D BASE	VELOS, NICK	836-1696
DISK BACKUP	ANTON, BILL	385-1225
	TRAVIS, SCOTT	455-9361
	UNGERMAN, MIKE	455-3441
EPSON PRINTER	EISEN,CARL	354-4837
	TRAVIS,SCOTT	455-9361
FORMAT II	HARVEY,DAVE	578-4621
FORTH	HOLDGREIWE, DAN	354-3561
FORTRAN	ANTON, BILL	385-1225
	KRIEGER, BILL	821-1496
INVESTMENT PGMS/STOCKS	PANKIN, MARK	524-0937
GAMES	LAUFER, GABOR	765-4539
LOCKSMITH	ANTON, BILL	385-1225
MACINTOSH	PANKIN, MARK	524-0937
	LOVE, JOHN	569-2294
MATH/STAT	PANKIN, MARK	524-0937
MULTIPLAN	PHILIPP, ERNIE	379-7198
	BALDWIN,MILES	938-8457
	LUCAS, TOM	321-9593
OPS RES/MGT SCI	PANKIN, MARK	524-0937
PFS:FILE	LUCAS, TOM	321-9593
PFS:REPORT	LUCAS, TOM	321-9593
PRODOS	KRIEGER, BILL	821-1496
PROWRITER PRINTER	KRIEGER, BILL	821-1496
RAMCARDS	TRAVIS, SCOTT	455-9361
SCREENWRITER II	PETRENKO, PETE	321-7332
	LUCAS, TOM	321-9593
SIDER HARD DISK	THORNBURG, JIM	750-1367
SUPERTEXT	VELOS, NICK	836-1696
THE ACCOUNTANT	PANKIN, MARK	524-0937
TURBO PASCAL	PHILIPP, ERNIE	379-7198
VISI FILE	FOX, ELLIOT	780-4403
VISICALC	THORNBURG, JIM	768-0356
VISIDEX	LAUFER, GABOR	765-4539
WORDSTAR	PHILIPP, ERNIE	379-7198

Additional areas needinng assistance:

Printers: prowriter, okidata, gemini, centronics.	Investments:stocks,bonds, commodities, printer interfaces,	
hard disks, logo 128K/memory cards,etc...	real estate	SOURCE

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You may leave questions on the Bulletin Board with your name or NOVAPPLE ## as an alternative.

INVESTING WITH APPLEWORKS!

by PAUL YAROSCHAK

A number of years ago, I got into mutual fund investing. As I gained some experience, I found some problems. One, statement forms began to stack up. Two, it was a pain to calculate the cost basis when selling a fund. Many people forget to do this and wind up paying taxes on the gains twice. Third, and most important, it was difficult to determine my Annual Rate of Return (ARR). Money Magazine and others list fund returns, but they are never for the same periods you own your funds nor do they account for periodic purchases or withdrawals.

Enter Appleworks. I developed a spreadsheet that tracks funds, makes cost basis determinations a snap and can show your ARR at any time for any fund. You can therefore compare funds or compare how your funds are doing against bond rates or other investments.

As I got more sophisticated, I developed a spreadsheet that tracks a number of stock market moving averages. By comparing the current index, such as the Dow Jones Industrials Average, to it's 25 week and 40 week moving averages, you can spot major market turning points (bottoms and tops). Near a market top, you might want to shift from stock mutual funds to money market or gold funds.
Rather than explaining the spreadsheets and theory here, I've made two "generic" spreadsheets with instructions. I'll bring them to the next meeting and add to the NOVAPPLE Library.

My next article (I hope) : "How I made a million in .....". How about an investment tip area on the BBS ?

BUILD A WORK STATION FOR YOUR APPLE
by John De Marco

The modular design of the APPLE has given it unmatched flexibility but almost guarantees a cluttered work space. While a variety of stands, shelves and custom designed desks are available on the market, none really answered my personal needs. And I just could not bring myself to pay sixty to several hundred dollars for a few pieces of bent aluminum or poorly fitting wood.

Figure 1 shows the measurements for a stand that combines simplicity with utility. It can be built in an evening using no more than a hammer and a saw. You can keep it simple and cheap by following the sketch and using scrap lumber or, if you have the talent and money, get fancy by using furniture grade wood and cabinet-maker construction techniques.

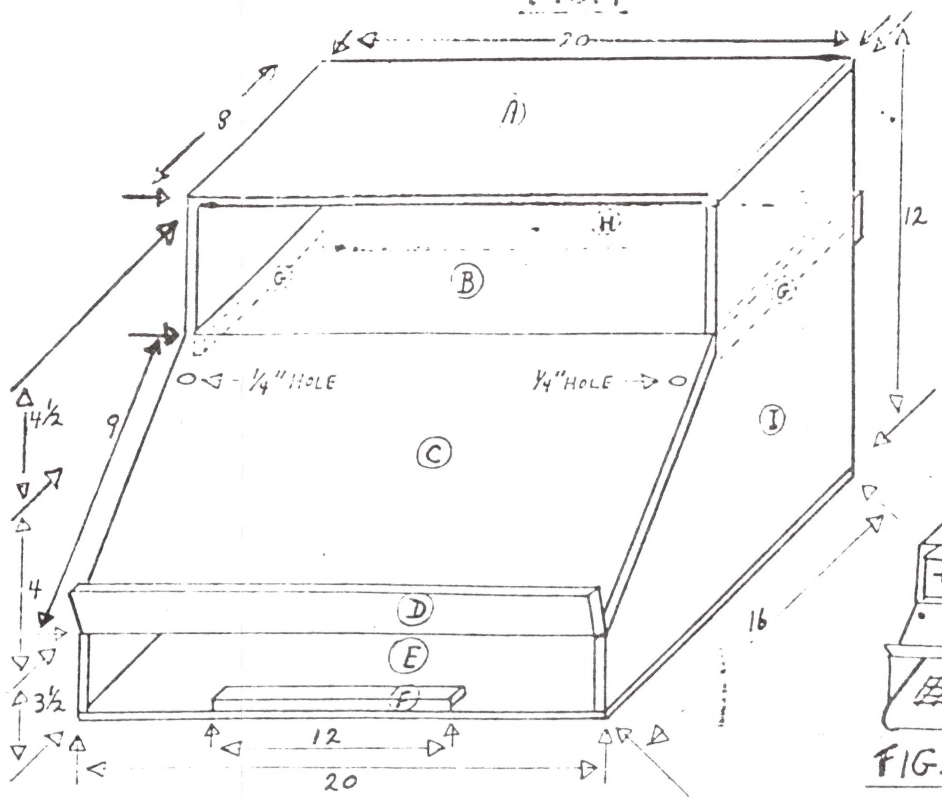
The stand is designed to hold the APPLE II with two five-inch drives and a monitor. There is extra space on one shelf (B in fig. 1) for a third drive, a power supply, or three boxes of disks. The cover (C in fig. 1), is easily removed and allows quick access to the mother-board for changing cards or whatever. It has space for a standard reference manual plus a note pad, felt pen, pencil, disks, a joystick, or whatever else your work habits demand. This allows you to look at the keyboard, the book, or the monitor by simply moving your eyes instead of twisting your whole body. The three and one half inch height of the front opening positions the cover just behind the keys of the APPLE. This allows you the option of dispensing with the regular APPLE cover to improve air circulation.

This model of the stand show the cover (C in fig. 1) held in place by two wood pegs (or finishing nails) which protrude from the edges of the side pieces (I in fig. 1) and fit into the two 1/4 inch holes in the cover. A hinge could be used here, but this arrangement allows you to lift the cover off and place it aside without the need to clear it off first.

Some variations:

1. Use clear plexiglass for pieces "C" & "D" in fig. 1 to give the stand a modern "see through" look.

FIG. 1



(GOTO PAGE 5)

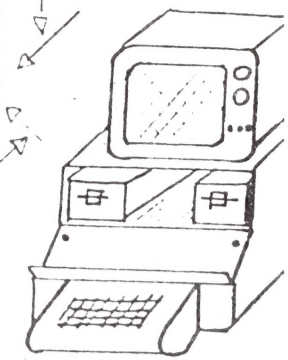


FIG. 4

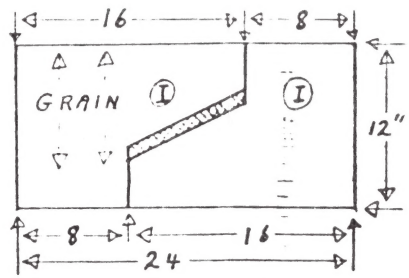


FIG. 2

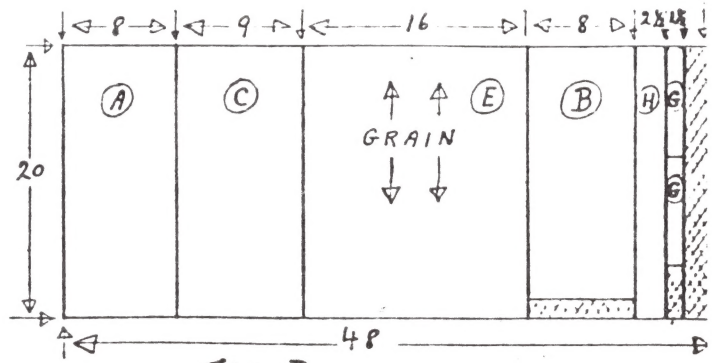


FIG. 3

MEASUREMENTS IN INCHES

A. 3/8 X 8 X 20
B. 3/8 X 8 X 18 1/2
C. 3/8 X 9 X 20
D. 1/4 X 1 1/2 X 20
E. 3/8 X 16 X 20
F. 1/4 X 1 1/2 X 12
G. 3/8 X 1 1/2 X 8 (2 ea)
H. 3/8 X 2 1/2 X 20
I. 3/4 X 12 X 16 (2 ea)

LUMBER REQUIRED

3/4 X 12 X 24
3/8 X 20 X 48
1/4 X 1 1/2 X 32

THE VERGECOURT 16K RAM CARD

BY GERALD ESKELUND

If you are interested in Pascal or in having extra memory, try the 16K RAM card by Vergecourt. This card is sold by Omega Sales Company and costs $129.95. It is compatable with Pascal and functions in the same manner as the Microsoft RAM Card, but does not have to be refreshed through the memory chip. The unit plugs into slot 0 just as the firmware card does, making it easy to interchange the cards when all of the slots are full.

The first card I received did not load Pascal. After trying all of the usual fixes, I called the company and was told to send it back for replacement. I did this and Omega sent me a new unit and a nice letter which indicated that they had checked out the orginal card but could not find anything wrong. They suggested that I call them again if the new card did not work. That one worked without a hitch and has been working ever since.

I have tried all of the various applications from loading Integer BASIC to Pascal and, except for the time it takes to load Integer BASIC into the 16K card, this RAM card has lived up to all of its claims. The time to load is no slower than any other RAM card. Of course, this is not a problem if you have an Integer Firmware Card which can be placed in slot 4. It also is necessary that DOS be changed to look for the Firmware Card in slot 4 instead of slot 0. (See either the November APPLE PI or the November NOVAPPLE NEWS.) If you want a reasonably priced 16K RAM card, this may well be the card for you.

<<WORKSTATION CONTINUED>>

2. Increase the length of the cover (C in fig. 1) to 12 inches to accommodate a standard loose leaf binder. You would also have to add three inches to piece "I" to maintain the three and one-half inch opening for the keyboard.

3. Install a piece of aluminum sheeting on the bottom side of shelf "A" (and ground it) if monitor radiation is giving your disk drives trouble.

4. Install an extension cord with multiple sockets, circuit breaker, and power switch on "H" or "I" in fig. 1. Using this switch instead of the trouble prone one on the APPLE could save you a lot of money and aggravation.

Journal of the Northern Illinois Computer Society

From the July 1980 issue,

BY MIKE YANKEE

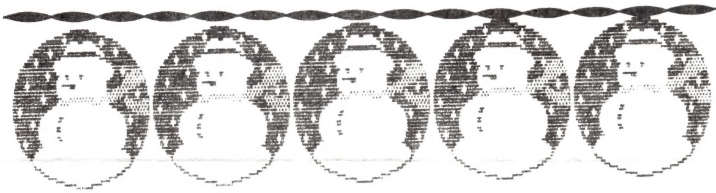
DEJA VU - A NIGHTMARE COMES TRUE!!

PUBLISHED BY MINDSCAPE

I am an enthusiastic veteran of the Scott Adam's series of Adventure games. Some years ago, I realized, as should all who venture into the realm of the interactive game, that **the time you play is a greater investment than the price you might pay!** By interactive games I mean: the Zork Games, the InfoCom Games, or any game that promises an adventure without leaving the comfort of your computer environment.

First off, I found the manual for Deja Vu very cute, written in a Mickey Spillane style and intriguing enough to entice even my wife (who normally hates these games). The manual, true to all revues to date, does a great job of both explaining the user interface and introducing the game. The game itself resides on two disks which come nicely sealed in a plastic sleeve inside a hardbound manual.

The user-interface is the easiest I've ever used on a game of this type. The game is completely graphically illustrated, even the objects you encounter may be picked up by dragging them into your inventory window. You do other complicated manipulation of objects in your environment by clicking a command menu and then clicking the object you want to operate. The only thing you need your keyboard in Deja Vu is for is talking to the taxi drivers (giving addresses) or interrogating some of the characters you encounter. This is in complete contrast to other games in which you stare at a monotonous "text" screen and type in idiot commands such as "take gun" , "shoot mugger", "jump up", "go west", and so forth, often being frustrated by the game's limited vocabulary and even more often getting stuck with apparently no other options to play.



Both my wife and I found Deja Vu very enjoyable and moderately easy to conclude. The story line has the right mix of intrigue and humor to hold your interest through the days it will take you to complete your task of discovering who you are and getting "the goods on" the bad guys. Anything else I say may ruin the game, except that addresses are the most valuable forms of information you can obtain and that violence is not your only option in dealing with the characters you may encounter.

I found the Special MacExpo Issue of **The Rest of Us** in "A View of Deja Vu" by Werner Weiss and the January 1986 copy of MacUser a considerable help as will anyone who may become stuck or just impatient with their game progress.

Deja Vu is an excellent choice of games for the person who feels no time restraints. Deja Vu is a first class adventure game and first but not last of its kind.

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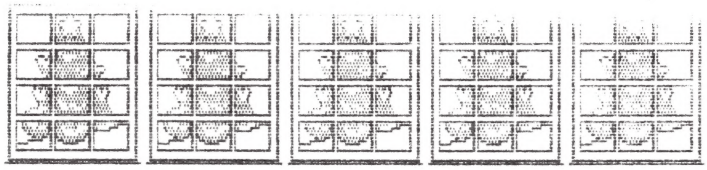
Reprinted from EL Paso Mac Times March, 1986

WARNING!!!!

Did you know that the trusty Imagewriter could quickly become a menace? Menace? How? Buried just beneath the carrier cover (top), on the left hand side (Right side on Imagewriter II) is a little magnet. Granted, it is a very little magnet, but if you lay one of your disks just above it, you may find some of your information gone when you insert that disk again. The magnet is there to open and close the switch that tells the printer if the cover is seated properly, Protect your data, don't lay your disks on the Imagewriter printer!



DO YOU THINK YOU KNOW TECHNOLOGY???

ANALOG - Hoesd'oeuvres, usually made from cheese and covered with crushed nuts served at embassy parties.
APPLE - Typically a device used to seduce men, usually equipped with display screens and/or forms.
BAR CHART - A list of places to go when it is Miller Time.
BASIC - A form of common sickness that occurs only after waiting for two hours to cross to Ocean City. (aka: Bay'Sick)
BINARY - Possessing the ability to have friends of both sexes.
BIT - Similar to Nibble, commonly eight nibbles in a mouthful. See Byte.
BPI - A term used to describe unmentionable parts of the antomy, as in "You bet your BPI!"
BUBBLE MEMORY - A derogatory term, usually referring to a person's intelligence. See also Vacuum Tube.
BUFFER - A process through which computers are treated to prevent stomach ups.
BUG - Small living things that small living boys throw on small living girls.
BYTE - A mouthful as in "How many bytes in a Big Mac?"
CARRIAGE RETURN - The act of bringing a vehicle back to the rental counter.
CASSETTE - A very small petite cass - usually achieved through exercise.
CHARACTER DENSITY - The number of very werid people in your office.
CHIP - Any number of small crunchy objects often served with onion dip.
CLOSED LOOP - A method of execution no longer in vouge except in Iran.
CODE - Usually lasts about three to five days accompanied by sore throat and runny nose.
COMMAND - Statement presented by Human and accepted by a computer in such a manner as to make the Human feel as if he is in control.
COMPILE - A heap of decomposition vegetable matter.
CONVERSATIONAL MODE - Describes the typical office on a monday after The Redskin Victory.
COUPLING - An activity usually preceded by marriage...but not necessarily.
CRT - A movie about a little alien who forgets his telephone number and must write home.
CURSOR - An expert in the use of four-letter words.
DEBUG - The act of placing shoe leather against a small creeping creature.
DISC DRIVE - Propulsion method developed by a well know foreign car manufacturer.
DOWNTIME - Title of a movie song popularized by Petula Clark.
DUMP - The EPA's answer to health.

EPROM - Movie Actor Eprom Zimbalist, Jr.
ERROR - Something only Humans can commit.
FIFO - A cute name for a dog.
FLOPPY DISCS - A defect occurring in all 1982 disc drives, necessitating a factory recall to the manufacturers.
GIGO - A movie industry acronym referring to the numberous "GIDGET GOES ###" movies i.e., GIGO Hawaiian, GIGO Surfing, GIGO Dancing, etc. etc. etc.
GLITCH - Scientific name for the little balls of fuzz that collect in navels.
HARDWARE - Typically boots, leather and chains - contrast with Software.
INTEGRATED CIRCUIT - The end result of busing.
INTERFACE - The opposite of "GETOUTTAMYFACE".
K - A term used in employment ads to disguise how much they are really willing to pay.
KEY PUNCHING - An activity similar in most aspects to cowpoking.
MEGAHERTZ - A very large car rental company.
MODEM - A contraction commonly used in "Give me some MODEM cookies."

NETWORK - The occupation of a fisherman.
ON LINE - A statement shouted at tennis judges in response to serves being called out.
OUTPUT - What people who talk backwards do with their cat.
PROGRAM - What commercials try to do to us.
RAM - A male sheep with horns.
REAL TIME - Here and now as opposed to fake time which only occurs there & then.
ROM - A Ram after a delicate operation.
SEMI-CONDUCTOR - A person hired to lead an orchestra before he has graduated from the famous director's school.
SERIAL PROCESSING - The procedure through which cornflakes are arrived at.
SNOBOL - A small white, round object thrown in winter.
SOFTWARE - Typically silk nighties, nylons, contrast with Hardware.
STRING - An object a kitten will play with but if given to a cat will cause him to leave home.
TERMINAL - What most people have to be before consenting to see a doctor.
TRANSISTOR - A sibling i.e., a transbrother.
TYPEWRITER - A contradiction in terms.
VACUUM TUBE - A derogatory term - see Bubble Memory.

MERRY CHRISTMASS ALL...

SCHEDULE OF UPCOMING EVENTS

REGULAR GENERAL MEMBERSHIP MEETINGS

1st Saturday -- Room 110 or 120, Bisdorf Bldg, Alex Campus NoVA CC - 10:00 AM
3rd Wednesday -- NOVEMBER - FAIRLINGTON COMMUNITY CENTER - 7:30 PM

Saturday	Dec. 6	10:00 AM	NVCC	Christmas Apple: Music & Graphics -- Club provides punch; bring Xmas treats, please.
	COOKIE! COOKIE!			
Wednesday	Dec. 17	7:30 PM	SEE ABOVE	What's Where in your Apple, OR How Do I Fix It When It's Broke?
Saturday	Jan. 3	10:00 AM	NVCC	To Be Announced
Wednesday	Jan.21	7:30 PM	Fairlington Comm. Cntr.	To Be Announced

SOME EDITORIAL REMARKS

Our disk librarian, Alan Florkowski, has reviewed some new public domain educational software for us (See Newton's Apple); many thanks, Alan! The TV program to which he refers is also called NEWTON's APPLE, and began its fourth PBS season from KTCA-TV in Minneapolis-St. Paul on Saturday, October 18 at 6:30 PM. Please check local listings for when programs are viewable in this area. DuPont and Apple Computer and TelEd Inc., of Los Angeles, CA. have taken this route to publicize physics, questioning, the TV series, Apple User Groups (and the desirability of purchasing Apple computers). Hope it is not too late to enjoy the series... and perhaps to learn of scheduled re-runs of programs corresponding to the software? Enjoy!

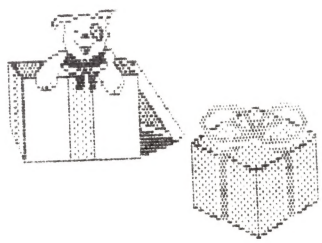
Dave Harvey enabled us to reprint the still useful, golden oldie on building a computer workstation. It was just TOO tempting to leave the 16K RAM disk review with it and ask, "Can you identify when the article was first published?" And thank you, Dave!

In case you never thought of it, reading this newsletter is a lousy substitute for going to user group meetings; newsletter is just a false and misleading name for it: There was a group purchase, on the ASCII Express Mousetalk ... announced at the Saturday meeting in November ... required a $57.50 check made out to NOVAPPLE, to Shelley Kramer at or before the November 19th meeting. If you are interested in joining the National Appleworks User Group (NAUG), which publishes a monthly newsletter, Bill Sanderson was taking $18 checks for a ten - person - or - more special rate on that, and you will have to contact Bill (352-1586) to see whether he has sent that in, yet. Y'ALL COME (that's Virginia-talk, y'hear?) to meetings, maybe?

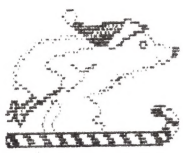
COME BEARING GOODIES TO SHARE

SATURDAY MEETING

Come for a computer-style of holiday spirits: The Saturday meeting in December will feature the Christmas Apple, with graphics and music. The club supplies punch, y'all bring cookies. See you there! Ho! Ho! Ho!



HAPPY

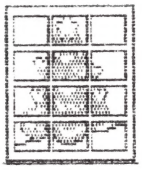


HOLIDAYS

** THE WEDNESDAY MEETINGS **

We will be having our Wednesday meeting at the Fairlington Community center in Room No.1 for now on.

To get to the meeting, which is located at 3300 S. Stafford Street in Arlington, from I-395 go east on Route 7 and at the 2nd traffic light, turn left onto Wakefield Street, then right onto 34th Street, then left on Stafford Street. The Center is more or less on the corner of 34th Street and S. Stafford. Meeting starts at 7:30 PM.



For Print Shop Cards
...In Time for Xmas

MAKE YOUR OWN ENVELOPES

"von Minsk zu Pinsk zu mir!"
--Tom Lehrer

FOLD

In the August, 1986, HARVEST of the Northern Illinois Computer Society there was reprinted from the July, 1986 APPLE TREE of Central Florida a program for printing outlines of envelopes for Print Shop greeting cards. And here it is, modified slightly for 80-column card and C.Itoh Prowriter:

```
10  REM  ******************
20  REM  * P.S. ENVELOPER *
30  REM  *  BY R.L.JONES  *
40  REM  * A SAC  PROGRAM *
50  REM  ******************
60   GOSUB  90:  PRINT  CHR$ (4)"PR#1": GOSUB 130:K = 13:
GOSUB 140: GOSUB 150
70   FOR I = 1 TO 26: PRINT "."; SPC( 6);"." SPC( 57);"."
SPC(  6);".":  NEXT  : GOSUB 150:K = 16: GOSUB 140: GOSUB
130
80  PRINT  CHR$ (12): PRINT  CHR$ (4)"PR#3": GOTO 60
90   HOME  :  GOSUB  160: GOSUB 170: HTAB 5: PRINT "*
PRINT SHOP ENVELOPER    *": GOSUB 170
100   HTAB  5:  PRINT  "*       by R.L. JONES         *":
GOSUB 170: GOSUB 160: PRINT
110   PRINT  "This  program  prints  an  envelope for the
Print  Shop  greeting  cards": PRINT : PRINT "Do you want
to  print?  (Y/N) ";: GET A$: PRINT : IF A$ <  > "Y" AND
A$ <  > "y" THEN  END
120   PRINT  :  PRINT  "Line up the paper with the top of
form.":  PRINT  :  PRINT  "turn  on the printer and hit a
key.";: GET A$: PRINT : RETURN
130   PRINT  SPC( 9): FOR I = 1 TO 55: PRINT ".";: NEXT :
PRINT : RETURN
140   FOR  J = 1 TO K: PRINT  SPC( 7);;".": SPC( 57);".":
NEXT : RETURN
150   PRINT   SPC( 7);: FOR I = 1 TO 59: PRINT ".";: NEXT
: PRINT : RETURN
160   HTAB 5: FOR I = 1 TO 31: PRINT "*";: NEXT : PRINT :
RETURN
170  HTAB 5: PRINT "*";: HTAB 35: PRINT "*": RETURN
 --NOVAPPLE
```

FOLD

FOLD

FOLD

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17724-2	AppleSoft Tutorial (with disk)	17722-6	AppleSoft Reference Manual
17721-8	BASIC Programming w/ProDOS (w/disk)	17728-5	ProDOS Technical Reference Manual
17720	Apple IIe Technical Reference Manual	17727	Apple IIc Technical Reference Manual
17739-0	ImageWriter Technical Reference Manual	17740	Instant Pascal Language Reference Manual
17741-2	Apple Numerics Manual	17731	Inside Macintosh, Vol. 1
17732	Inside Macintosh Vol. 2	17733	Inside Macintosh Vol. 3
05409-4	Inside Macintosh Vol. 4	17737	Inside Macintosh, Hardback Vol. 1-3

MANUALS PUBLISHED BY APPLE COMPUTER

Manuals Sold Through Dealer Price List

Apple II Product Line:

Code #	Description	Code #	Description
A2L4038	Apple IIc Owner's Manual	A2L2073	Apple IIe Enhanced Owner's Manual

Manuals Sold Through Media Exchange Program

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030-1264	Apple II Utilities Guide	030-1292	Apple IIGS Manual
030-1294	Apple IIGS Setup Guide	030-0408	80 Column Text Card Manual
030-1022	Apple IIc Reference Manual Part 2	030-2028	Apple II System Utilities Manual
030-0209	Apple II Plus Vital Importance Manual	030-1030	Apple IIc Owner's Man. & System Util.
030-0814	Apple IIc Reference Manual Part 1	030-0115	DOS 3.3 Manual
030-0536	DOS Programmer's Manual	030-0715	DuoDisk Owner's Guide
030-0622	Apple IIe Guide to New Features	030-0200	Apple IIe Hand Controller Manual
030-0563	Apple IIe Joystick Manual	030-0217	Language Card Manual
030-1141	About your Enhanced Apple IIe	030-0975	Appleline Manual
030-0961	Apple IIc Mouse Manual	030-0564	Apple IIe Numeric Keypad Manual
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030-0416	UniDisk Owner's Manual	030-1209	Apple II Mem Exp Card Users Man.
030-0598	Apple II Monitor User's Manual	030-0463	Apple II Numeric Keypad Manual
030-0255	Universal Parallel Card Manual	030-1151	Unidisk 3.5 Manual

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030-1246	Macintosh Plus Manual	030-0611	Lisa Cluster Controller Manual Part 1
030-0667	Lisa Cluster Controller Manual Part 2	030-1326	Mac 512K Enhanced Owner's Manual
029-0055	Lisa Motorola 16-Bit Micro Manual		

Apple /// Product Line:

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030-0243	Apple II Mouse User's Manual	030-0143	SOS Driver Manual
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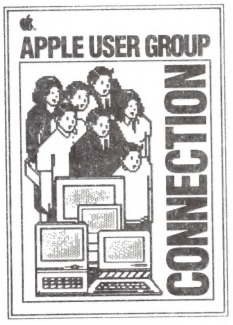
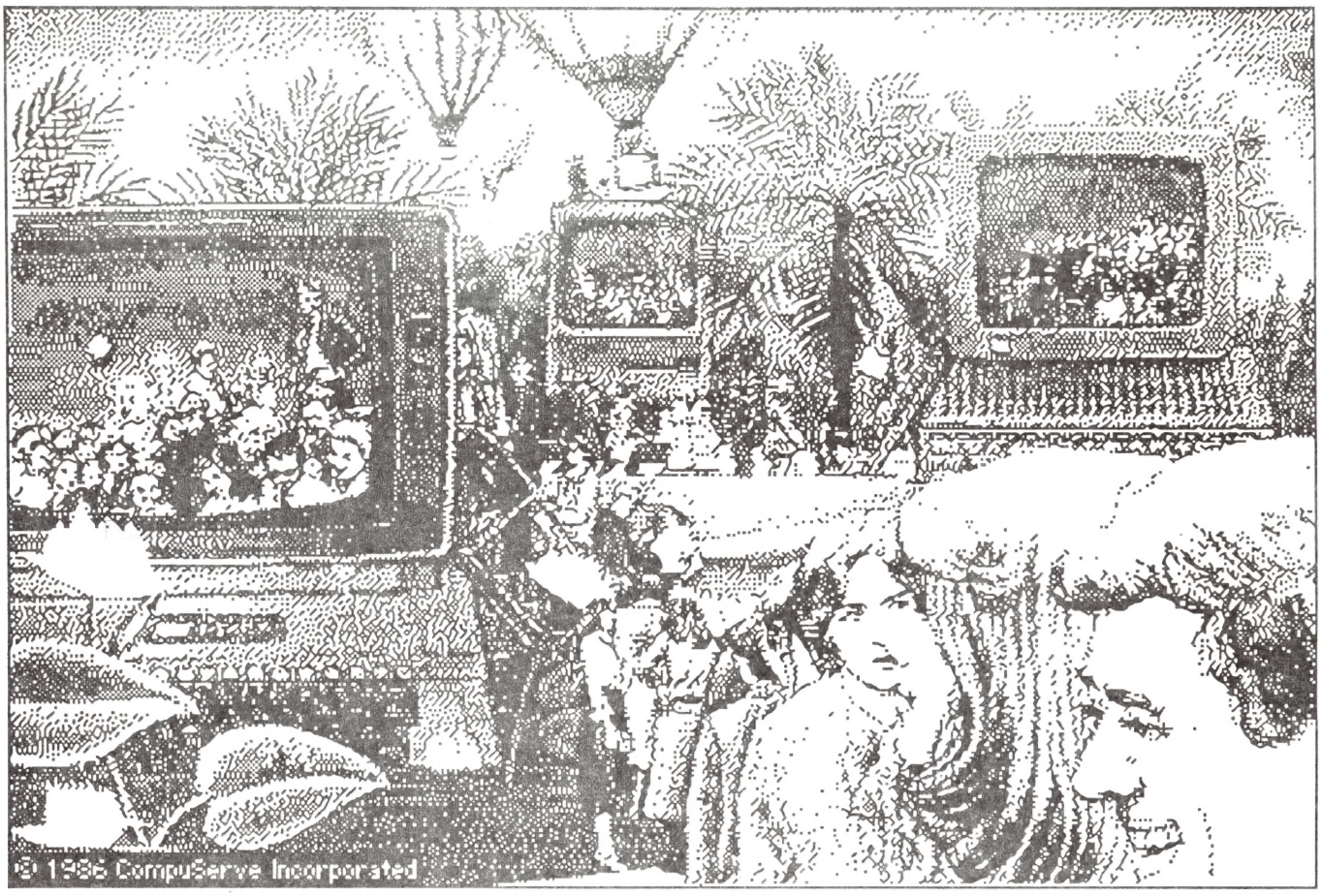
030-3110	Apple Monochrome Monitor Manual	030-3118	SCSI Card Manual
030-2001	Apple Personal Modem User's Guide	030-0623	Cable and Connector Manual
030-1224	Apple IIe/IIc Color Monitor Manual	030-3138	Hard Disk 20SC Manual
030-1228	Hard Disk 20 Manual	030-2040	Apple 5.25 Drive Owner's Manual
030-1313	ImageWriter II AppleTalk Manual	030-2002	ImageWriter II Owner's Manual
030-2005	ImageWriter II Sheetfeeder Instrct	030-1292	LaserWriter Plus Manual
030-1094	LaserWriter Owner's Manual	030-1327	Mac 512K Enhanced Disk Upgrade Manual
030-0941	Domestic 9" Monitor Manual	030-0943	Multilingual 9" Monitor Manual
030-0976	AppleColor Monitor Manual	030-0739	Apple II Dot Matrix Printer Manual
030-0740	Apple /// Dot Matrix Printer Manual	030-0371	Parallel Card Manual
030-0607	DMP Reference Manual	030-0076	Graphics Tablet Manual



Please note: Manuals for products out of production (for example, the Apple ///) will be sold only while supplies last.



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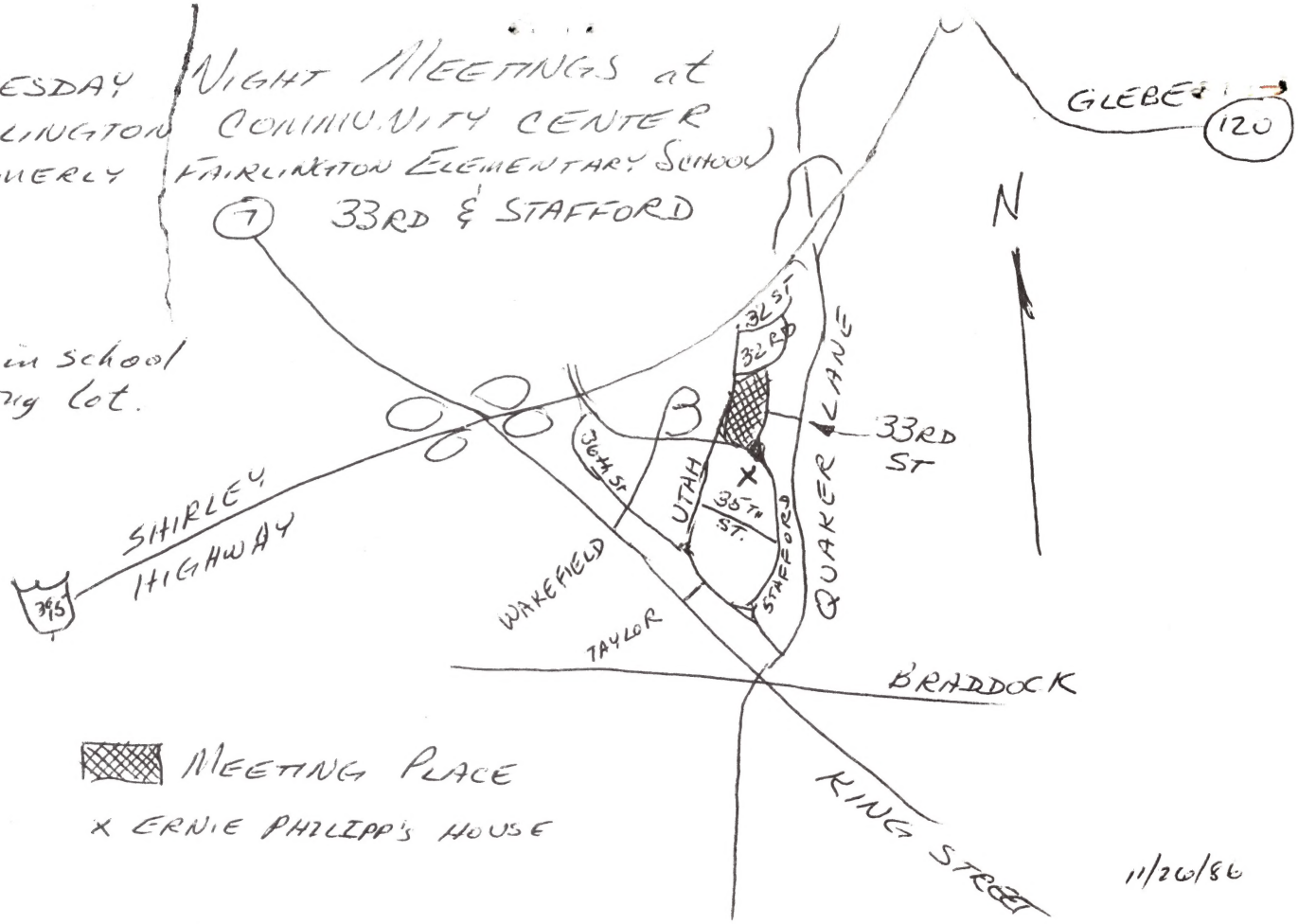

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